LIGHT MY BRICKS

LEGO® CHRISTMAS WREATH 2-IN-1 #40426 LIGHT KIT

INSTALLATION GUIDE

Light My Bricks

LEGO® CHRISTMAS WREATH 2-IN-1 40426 INSTALLATION GUIDE

Hi There!

We're here to help you get started on the LEGO®

Christmas Wreath 2-in-1 40426 Light Kit.

This PDF details the instructions for the LED light kit only.

If you run into any issues, please refer to the troubleshooting section towards the end of this guide.

Have fun and enjoy!

INSTALLATION GUIDE

PACKAGE CONTENTS:

4 x White 30cm Bit Light
4 x Red 30cm Bit Light
4 x White 15cm Bit Light

1 x 6 Port Expansion Board
1 x 12 Port Expansion Board
1 x Flicker Effects Board

2 x 5cm Connecting Cable

1 x USB Power Cable
1 x AA to USB Battery Pack

+ 6x Adhesive Square

ASSORTED BRICKS:

- 4 x Round Plate 1x1 - Trans Red
- 4 x Round Plate 1x1 - Trans Orange

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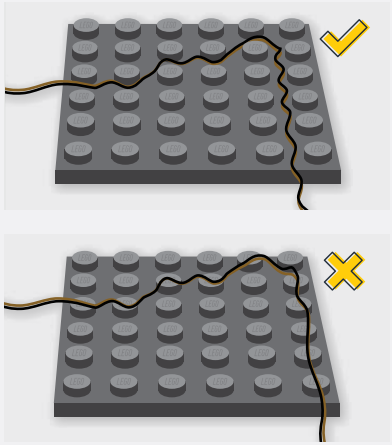
Before You Begin



Laying cables in between and underneath bricks

Cables can fit in between and underneath LEGO® bricks, plates, and tiles providing they are laid correctly between the LEGO® studs. Do NOT forcefully join LEGO® together around cables; instead ensure they are laying comfortably in between each stud.

CAUTION: Forcing LEGO® to connect over a cable can result in damaging the cable and light.

Connecting Cable Connectors To Expansion Boards

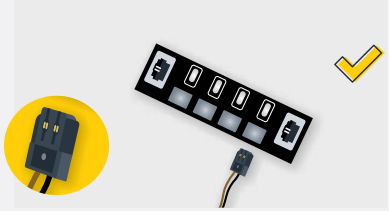
Take extra care when inserting connectors to ports of Expansion Boards. Connectors can be inserted only one way. With the expansion board facing up, look for the soldered "=" symbol on the left side of the port. The connector side with the wires exposed should be facing toward the soldered "=" symbol as you insert into the port. If a plug won't fit easily into a port connector, do not force it.

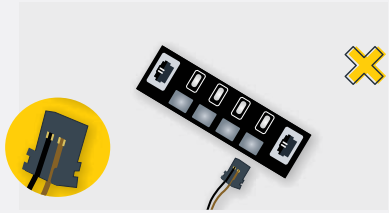
Incorrectly inserting the connector can result in bent pins inside the port or possible overheating of the expansion board when connected.

Before You Begin

Connecting Cable Connectors To Strip Lights

Take extra care when inserting connectors to ports on the Strip Lights. Connectors can be inserted only one way. With the Strip Light facing up, ensure the side of the connector with the wires exposed is facing down. If a plug won't fit easily into a port connector, don't force it. Doing so will damage the plug and the connector.





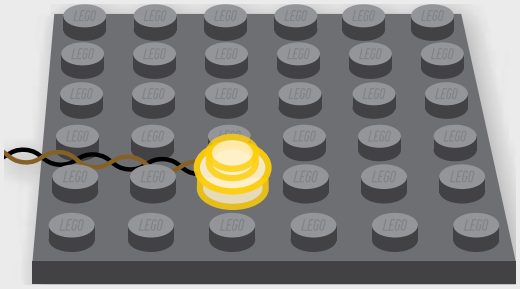
Connecting Micro Cable Connectors To Micro Expansion Board Ports

Take extra care when inserting the micro connectors to micro ports of Micro Expansion Boards. Connecting Micro Bit Lights to Micro Expansion Boards is similar to connecting lights and cables to Strip Lights. With the expansion board facing up, ensure the side of the connector with the wires exposed is facing down. If a plug won't fit easily into a port connector, do not force it. Use your fingernail to push the plastic part of the connector to the micro port.

Before You Begin

Installing Bit Lights Under Lego® Bricks And Plates

When installing Bit Lights under LEGO® pieces, ensure they are placed the correct way up (Yellow LED component exposed). You can either place them directly on top of LEGO® studs or in between.



Before You Begin

The Symbols Used In This Guide

When going through the following guide you will come across symbols and formats that will assist with the installation of your light kit. Take notice of them as each has a specific purpose.

Light Kit Component

This is the most important image format as it indicates which part to use from the Light Kit. Make sure you pay close attention to which part is shown.

Connect

Used when you need to connect a LEGO piece or LMB component.

Disconnect

Used when you need to remove a LEGO piece/ section or LMB component.

Directional

Used to show where to route cables, place components, or move them.

Bend/Pivot

Used when a component needs to be bent, or part folded or pivoted.

Turn/ Flip

Will be found in the top left corner when the set needs to be rotated or flipped.

Twist/ Braid

Seen when a set of cables need to be grouped and twisted together.

Power On Test

Found at the end of a major step to test the lights. Will be located in the top left corner.

Note

Notes will be found alongside the instruction photos and explain what to do.

Before You Begin

Repeat Step

Repeat the previous step eg. Make a spotlight, then make a second spotlight.

x2

Connect Focus

Used to highlight a hard to see area where a component is being connected.

Disconnect Focus

Used to highlight a hard to see area where a component is being disconnected.

General Focus

Used to highlight a hard to see area where a component needs to be acted on.

General Note

This is a sample note that is used anywhere in this guide. It will explain a difficult section where photos are hard to illustrate or easily confused.

Connect Note

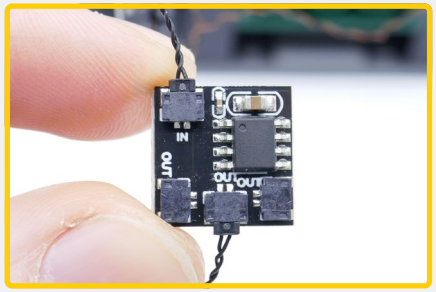
The green coloured note is used when the topic focuses on a component being connected, like the shown Power Bank.

Disconnect Note

The red coloured note is used when the topic focuses on a component being disconnected or like here, the removed pieces.

NOTE

Take the 5cm Connecting Cable from the 4-Port Micro Expansion Board and route it into the "IN" port of the Flicker Effects Board



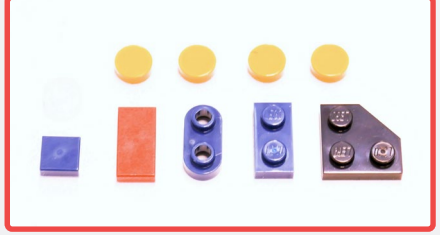
NOTE

Connect to a 5V USB Power Bank, 5V USB Wall Adaptor, or USB to AA Battery Pack (sold separately)

NOTE

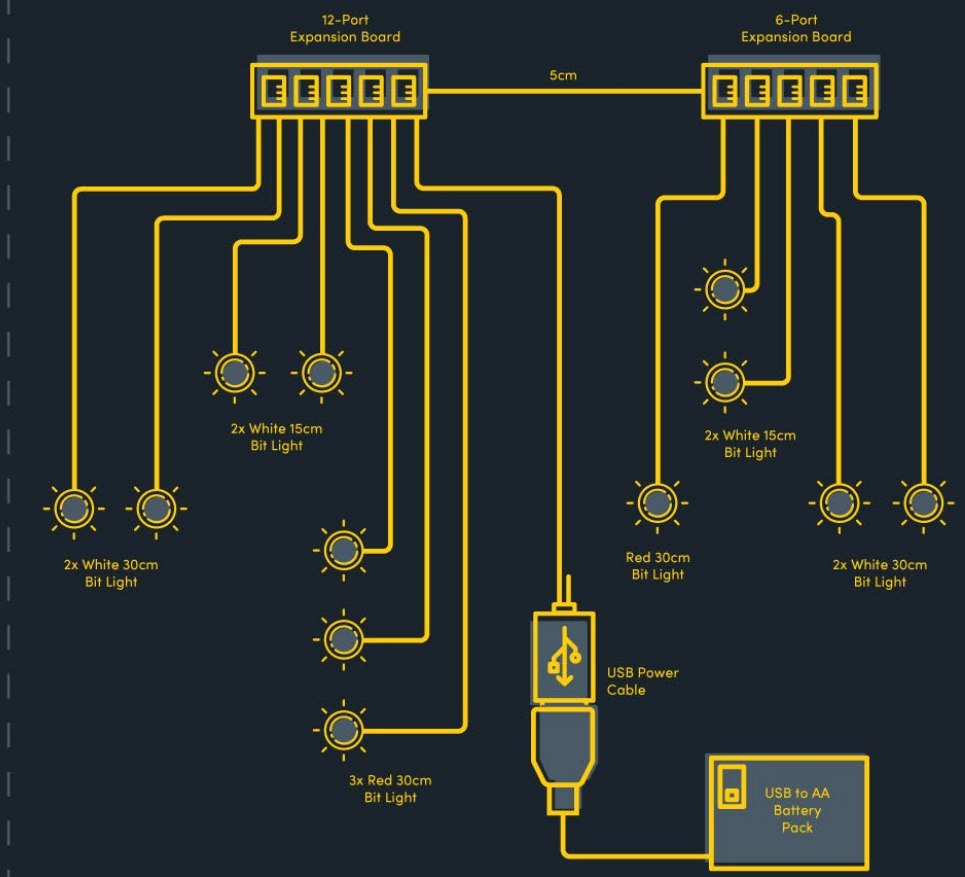
You should have these parts left over that were removed from the LEGO set

Removed Pieces

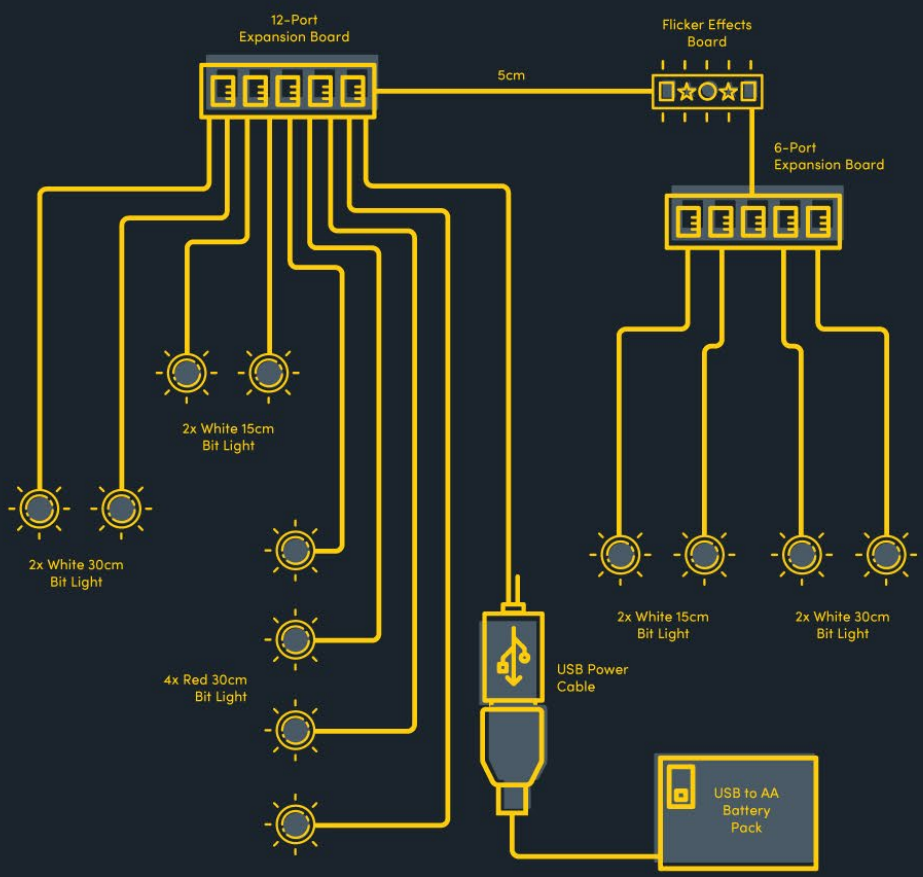


BLUEPRINT

Hanging Wreath



Candle Wreath



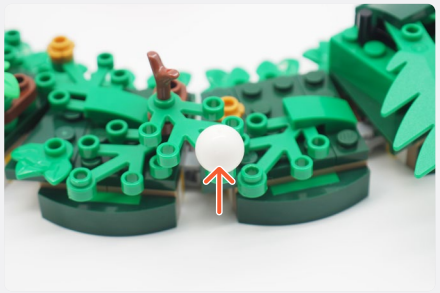
INSTRUCTIONS

The following section is for the “Hanging Wreath” variant. To light up the “Candle Wreath”, skip to Page 15 or click here.

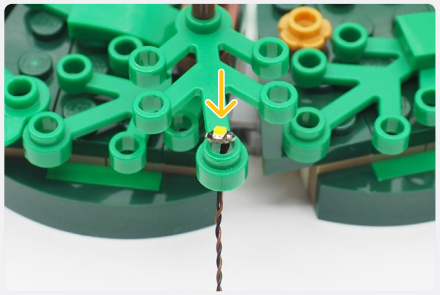
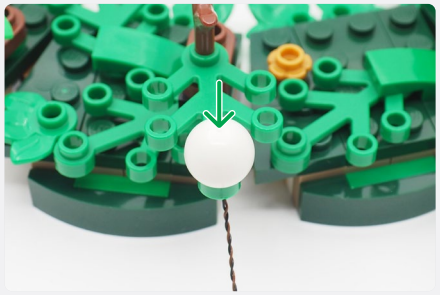
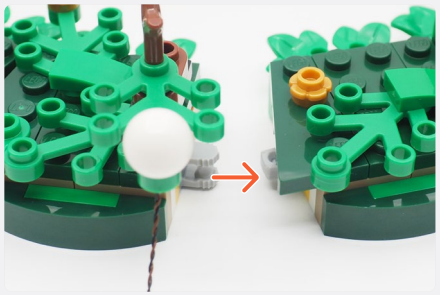
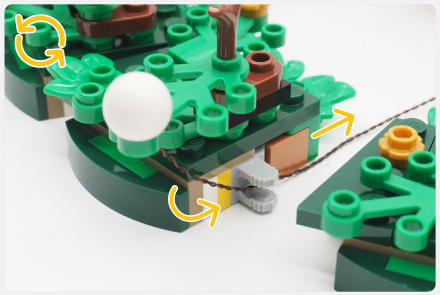
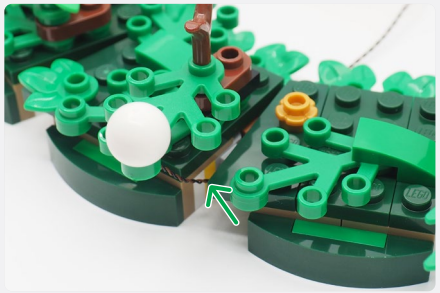
To ensure a smooth installation of your light kit, please read and follow each step carefully. If you run into any issues, please refer to the online troubleshooting guide
In Deutsch.
En français.
In italiano.

1

2



White 30cm Bit Light

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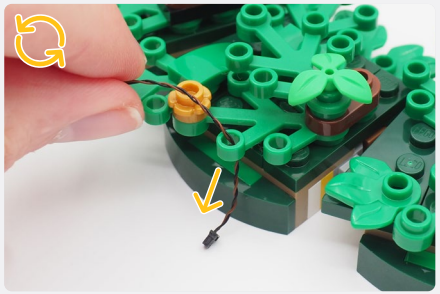
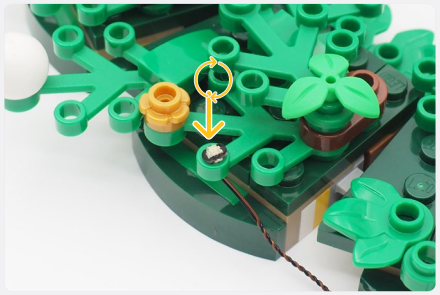
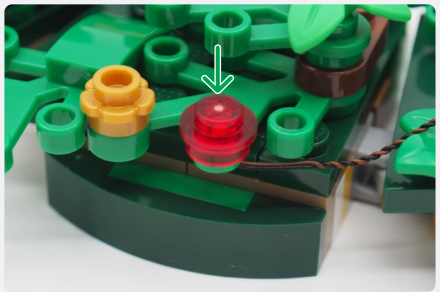
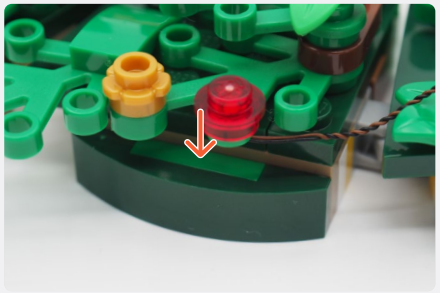
Red 30cm Bit Light

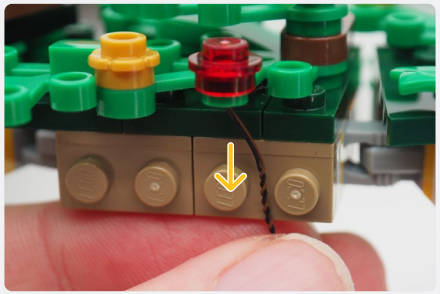




Round Plate 1x1 - Trans Red







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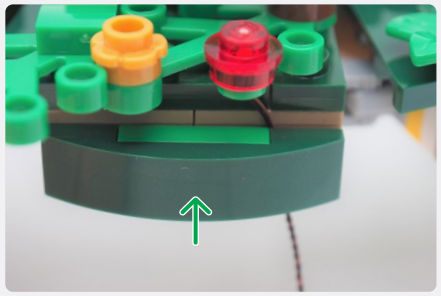
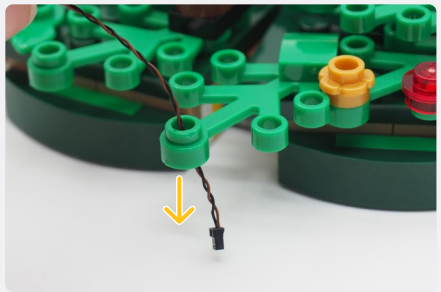
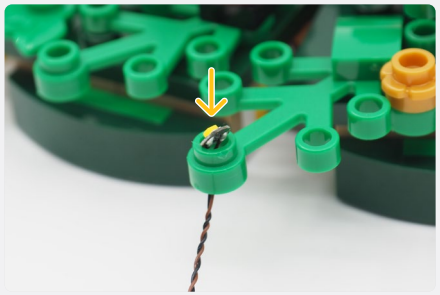
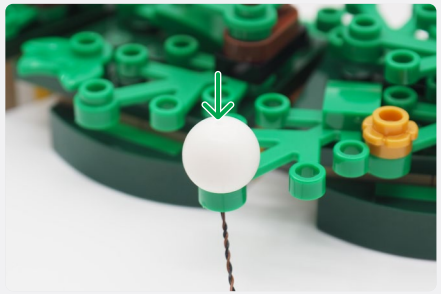
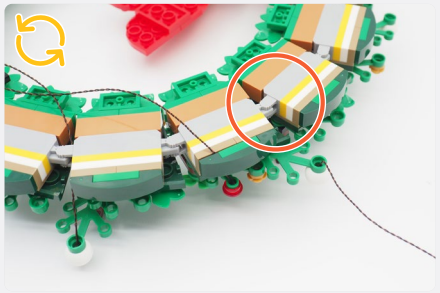


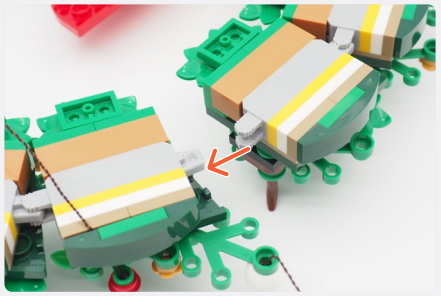
White 30cm Bit Light





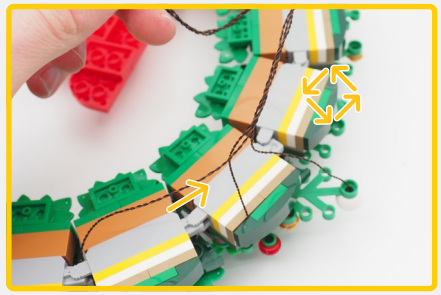


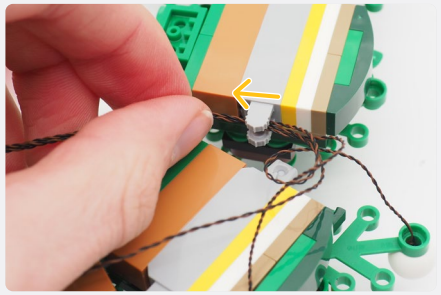


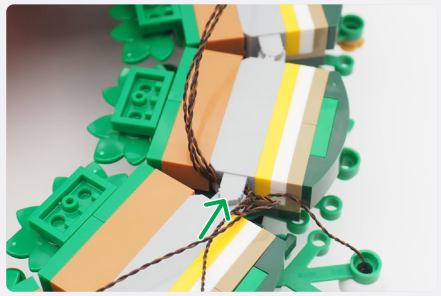


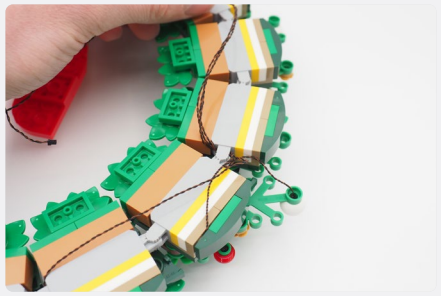
NOTE

Gather the three Bit Lights you just installed and twist them together.









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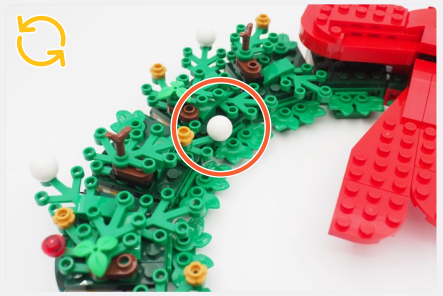
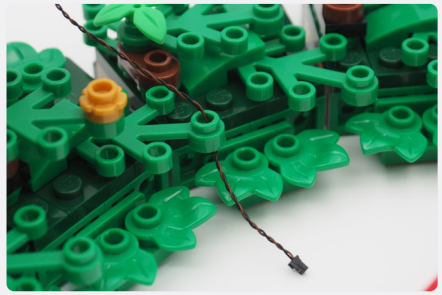
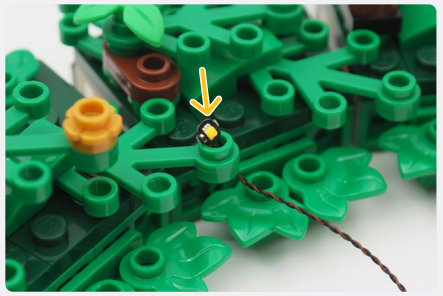
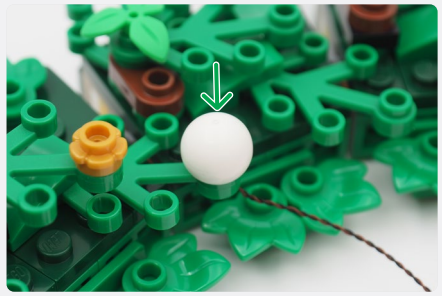


White 15cm Bit Light







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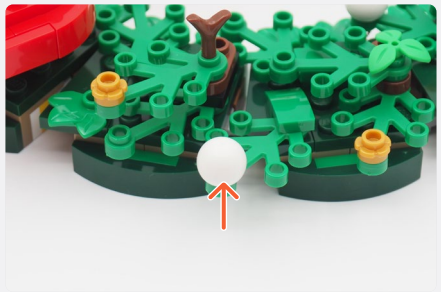
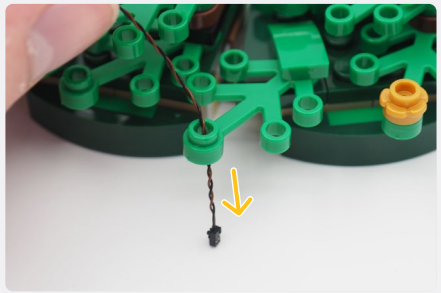
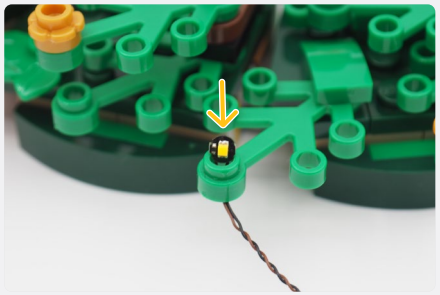
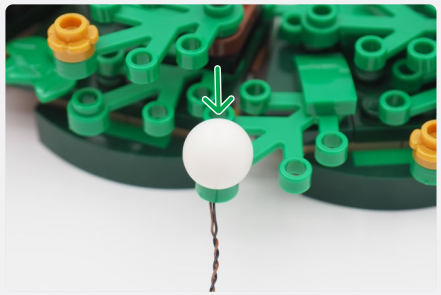


White 15cm Bit Light

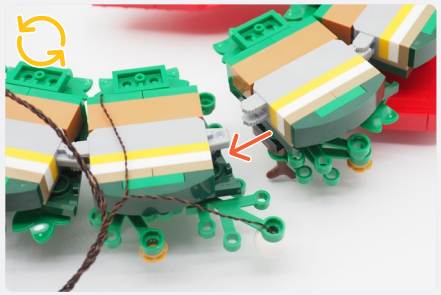


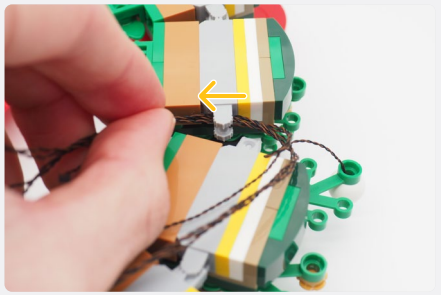




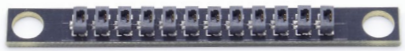
NOTE

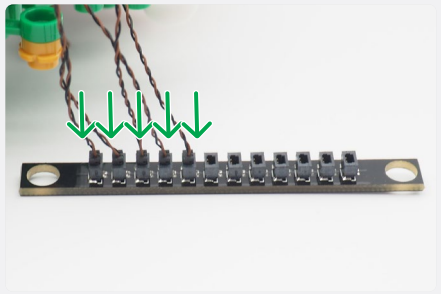
Gather the two Bit Lights you just installed and twist them together with the bundle you twisted earlier.





12-Port Expansion Board





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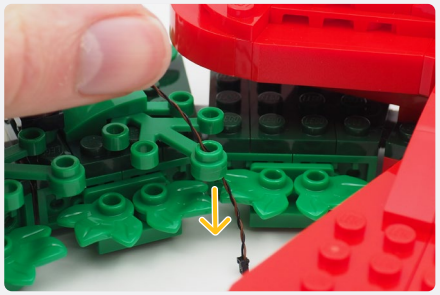
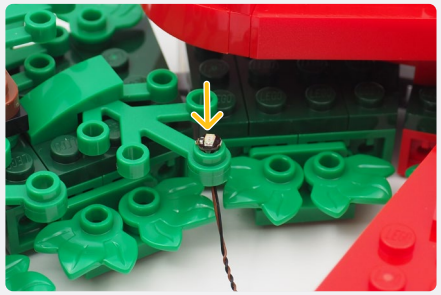
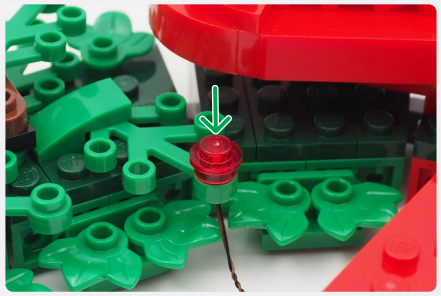
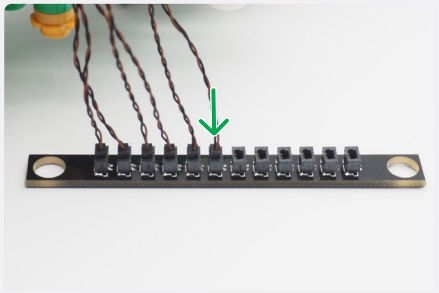
Red 30cm Bit Light





Round Plate 1x1 - Trans Red





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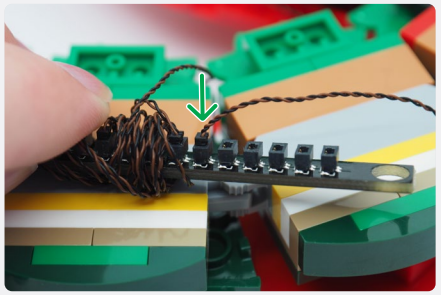
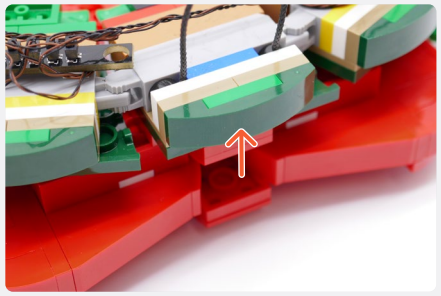
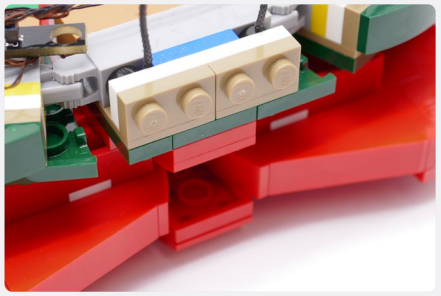
NOTE

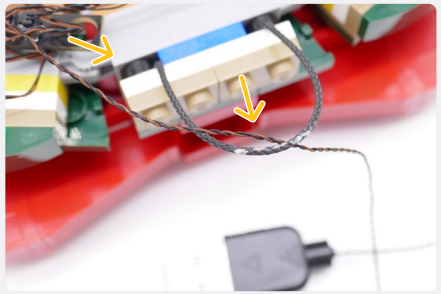
Wrap all of the cables around the 12-Port Expansion Board.

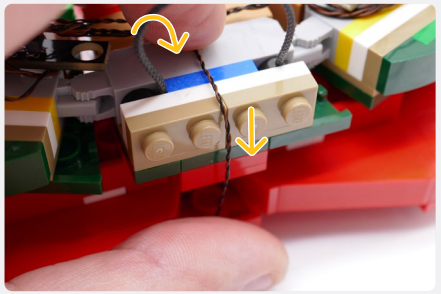
USB Power Cable

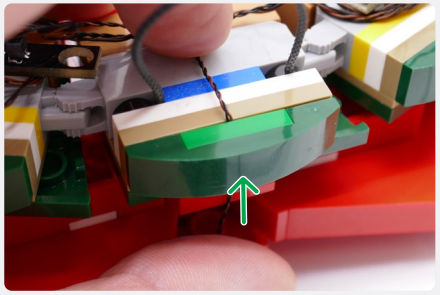












AA to USB Battery Pack

NOTE

Connect the USB Power Cable to the AA to USB Battery Pack.

! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues in our troubleshooting section. i

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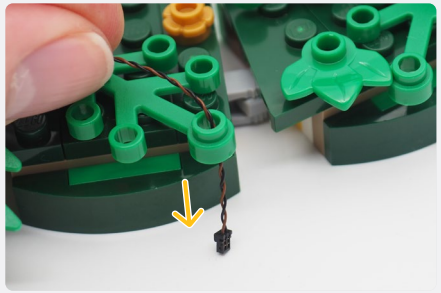
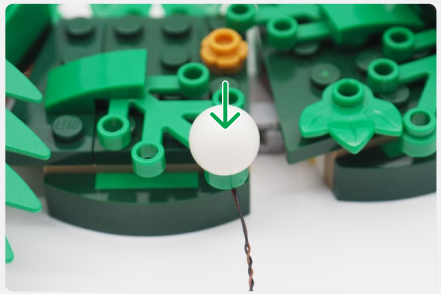
White 30cm Bit Light





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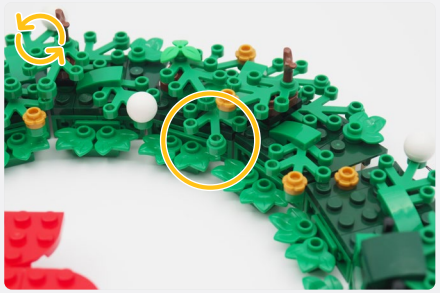
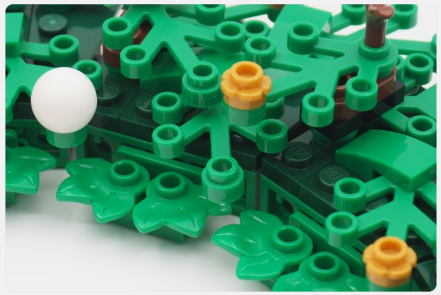
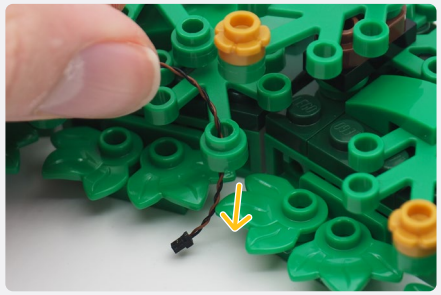
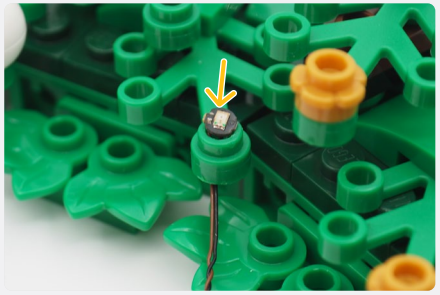


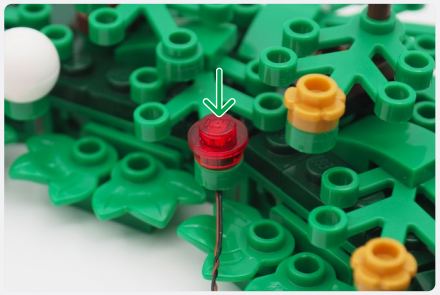


Red 30cm Bit Light





Round Plate 1x1 - Trans Red



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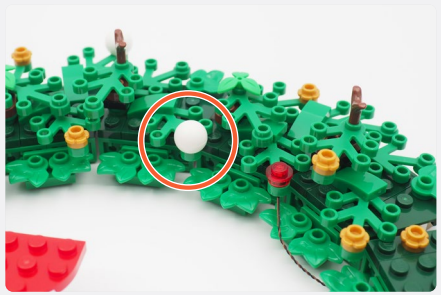
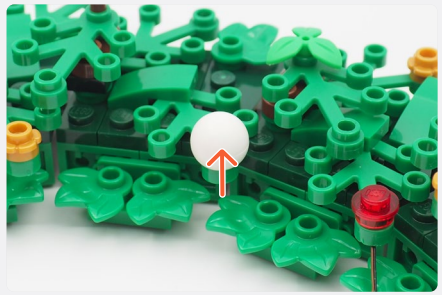
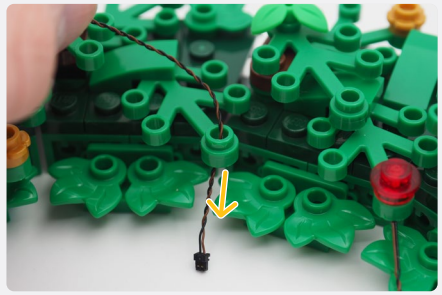
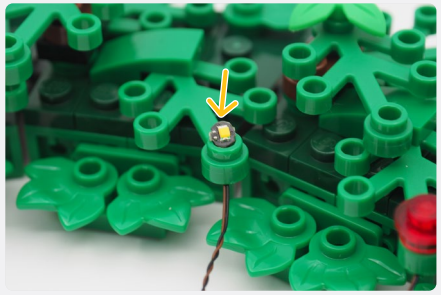
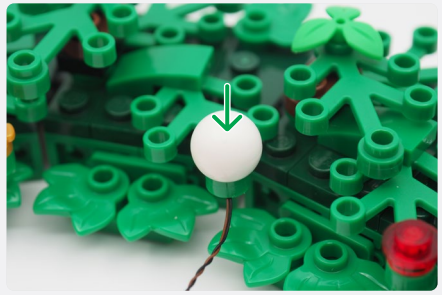




White 30cm Bit Light







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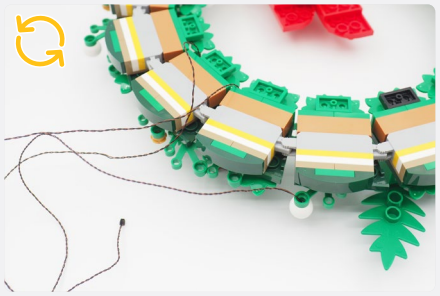
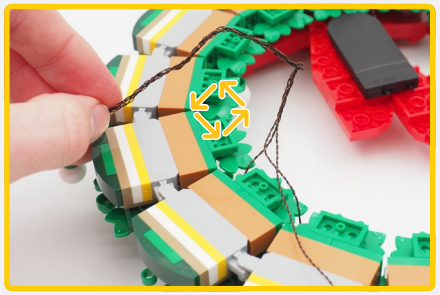
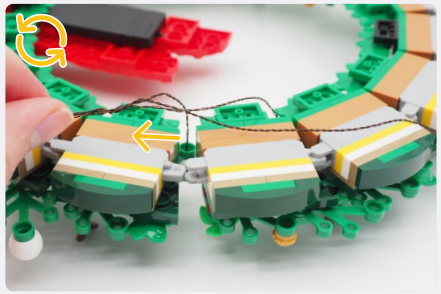
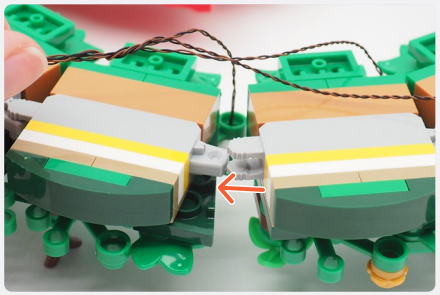


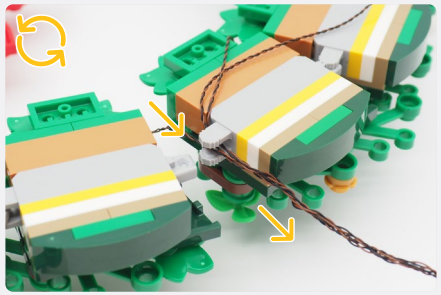
NOTE

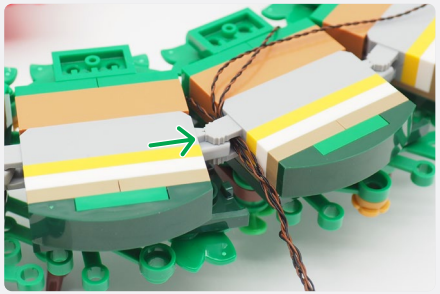
Gather the three Bit Lights you just installed and twist them together.

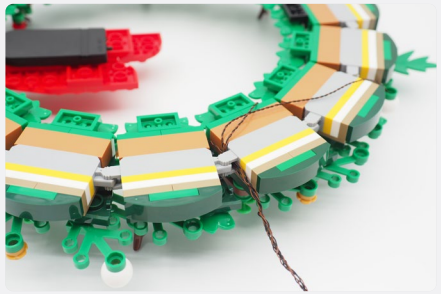












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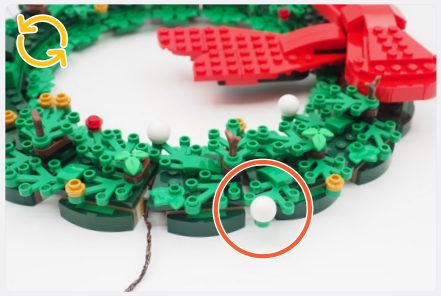
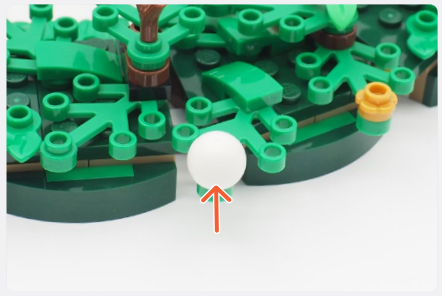
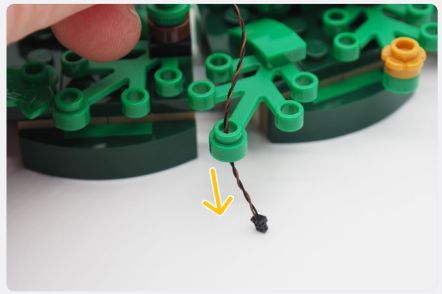
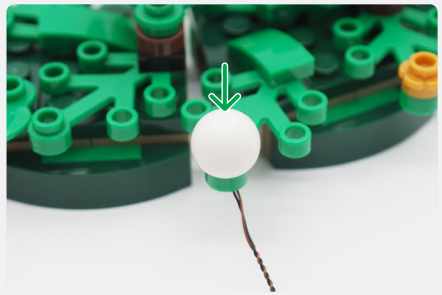
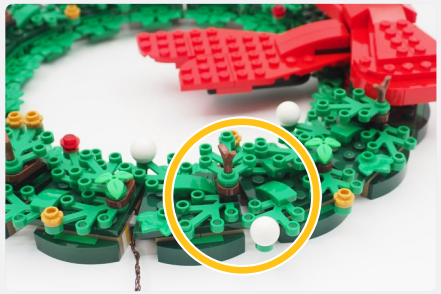


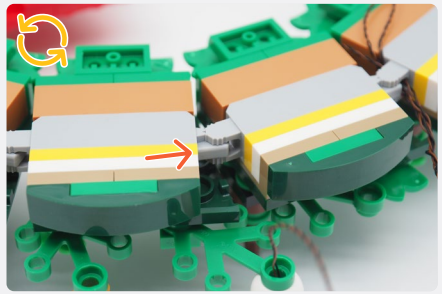


White 15cm Bit Light









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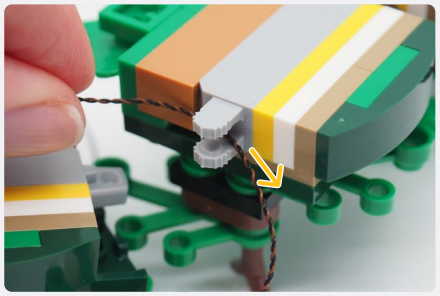
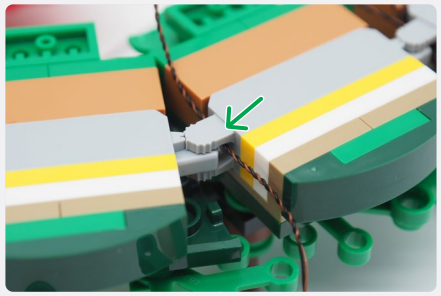
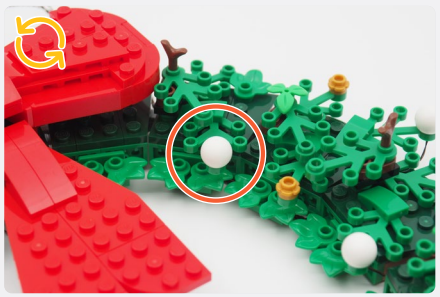
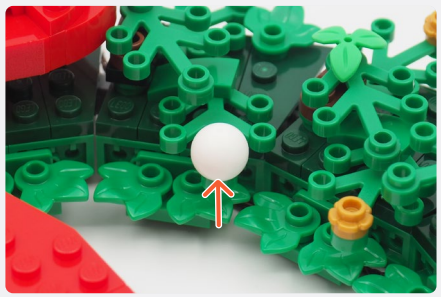
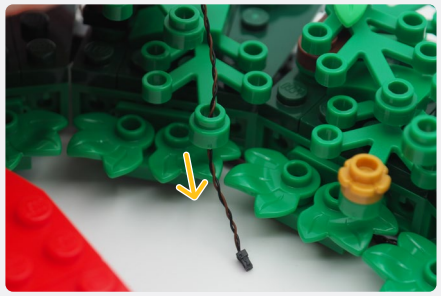


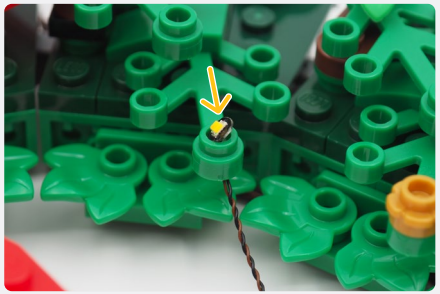


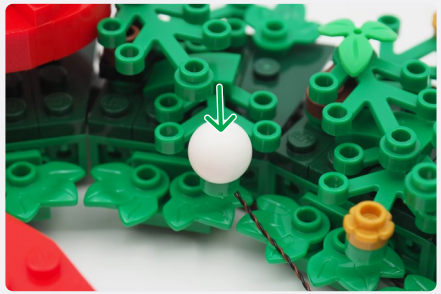




White 15cm Bit Light







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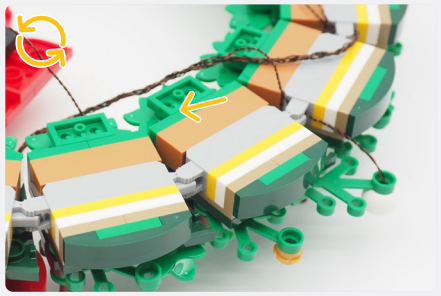
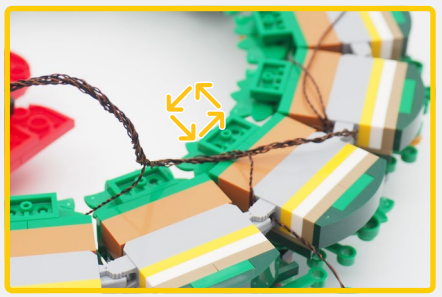
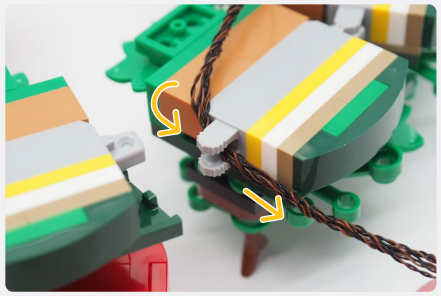


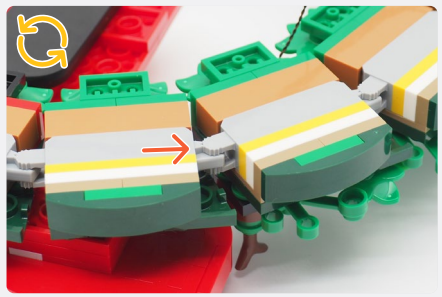


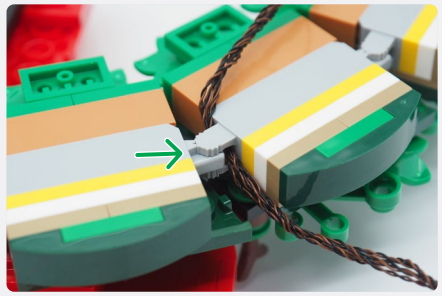


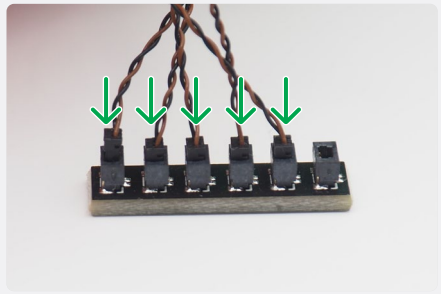
6-Port Expansion Board

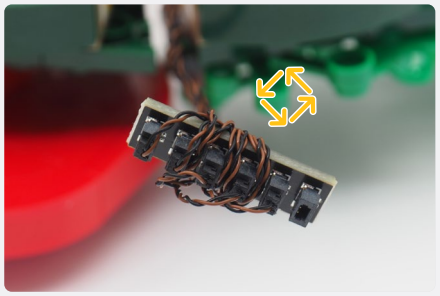
NOTE

Take the Bit Light you just installed and twist it together with the bundle you twisted earlier.

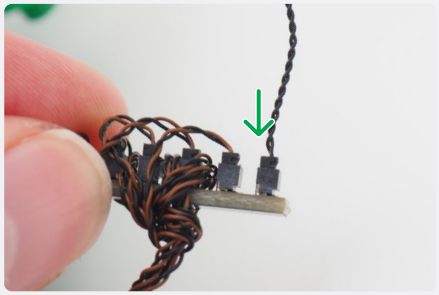




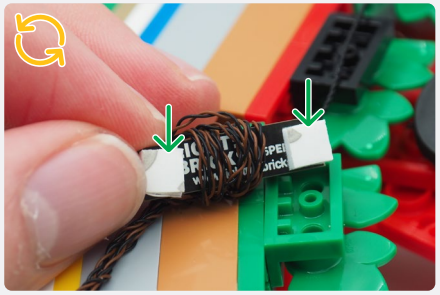


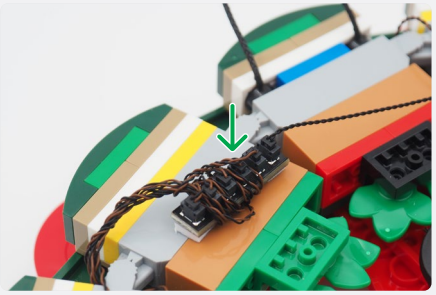


5cm Connecting Cable



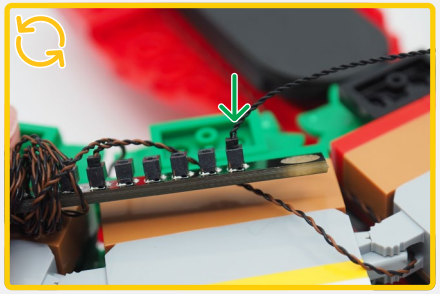
2x Adhesive Square





NOTE

Plug the other end of the 5cm Connecting Cable to the 12-Port Expansion Board from Step 8.



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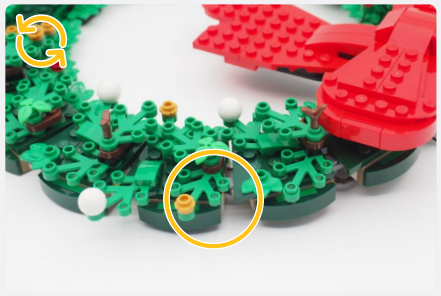
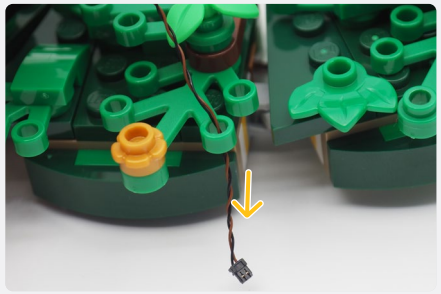
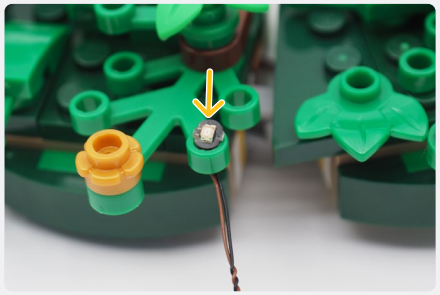
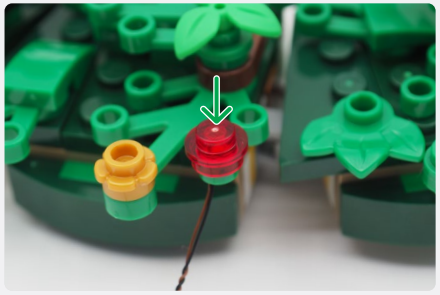


Red 30cm Bit Light





Round Plate 1x1 - Trans Red



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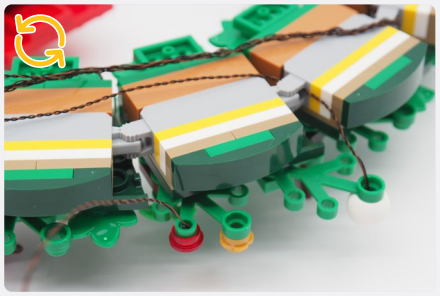
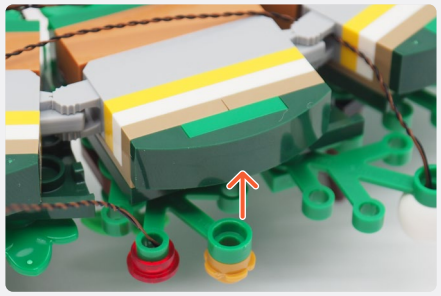
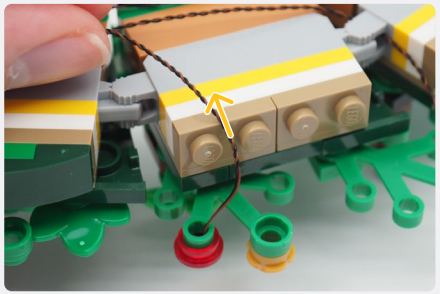
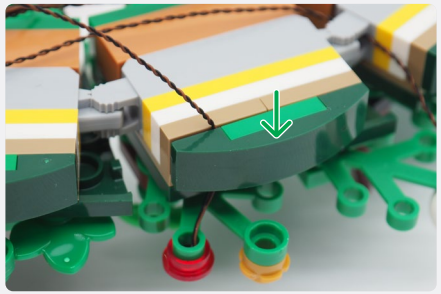
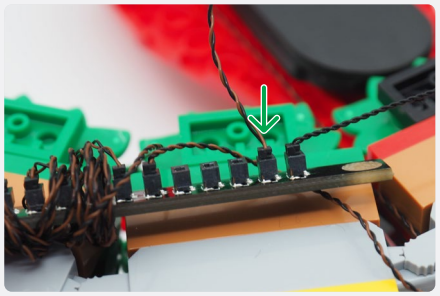
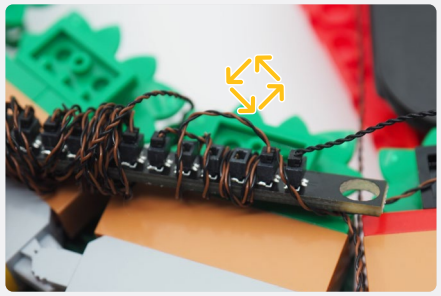
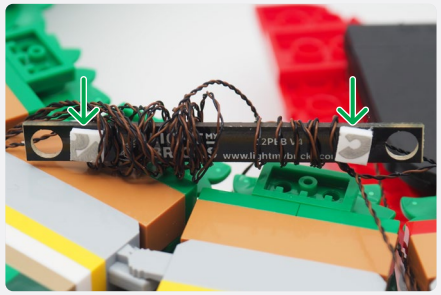
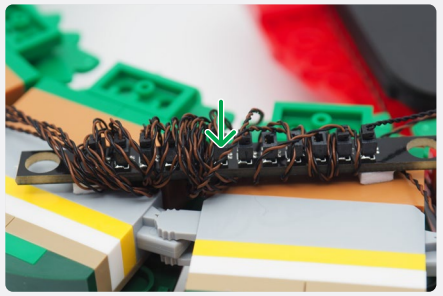







2x Adhesive Square





NOTE

Reconnect all of the leaf sections back onto the Wreath in the same positions as before.

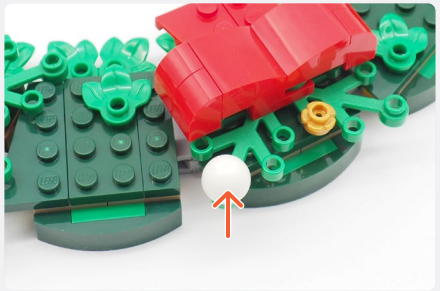
! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues in our troubleshooting section. i

INSTRUCTIONS

The following section is for the “Candle Wreath” variant. To light up the “Hanging Wreath”, go back to Page 11 or click here.

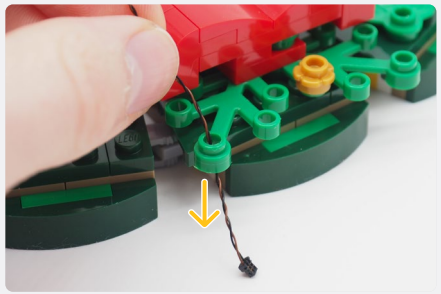
To ensure a smooth installation of your light kit, please read and follow each step carefully. If you run into any issues, please refer to the online troubleshooting guide.

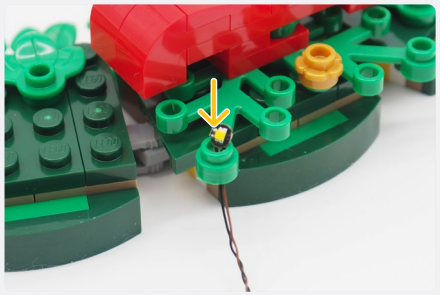
1

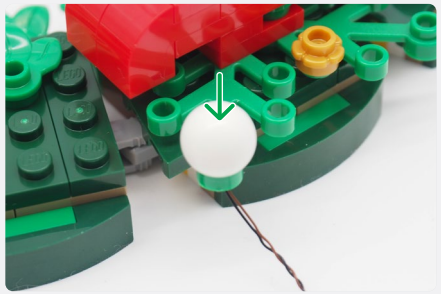


White 30cm Bit Light

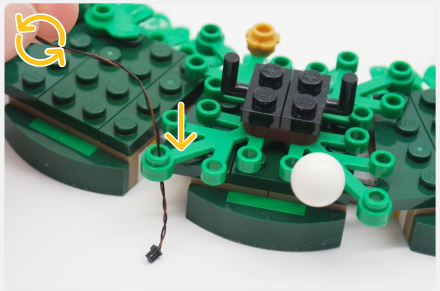
2

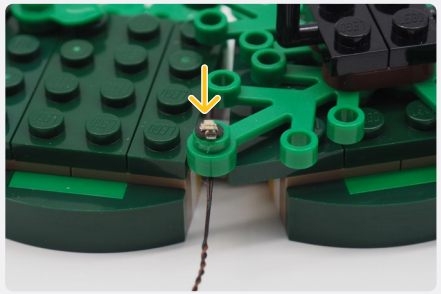




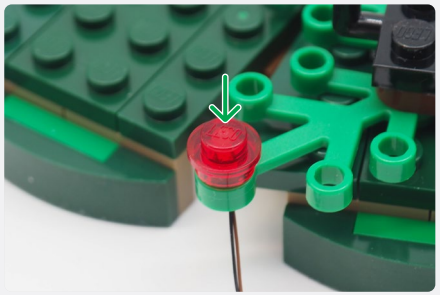
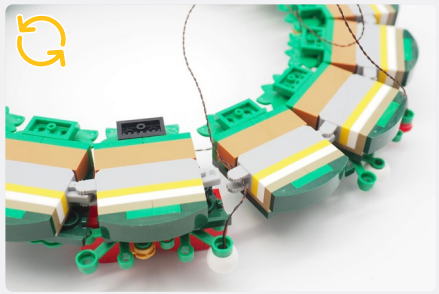
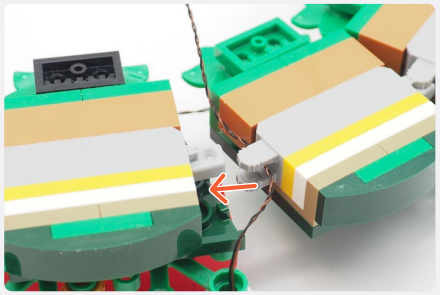
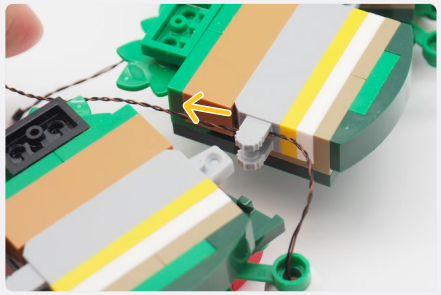
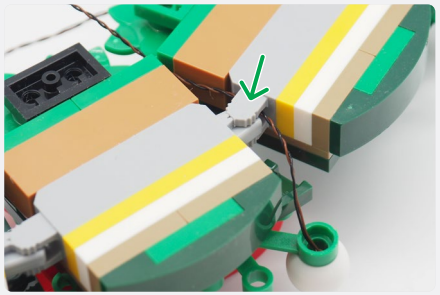
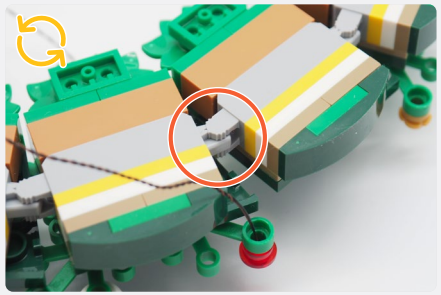
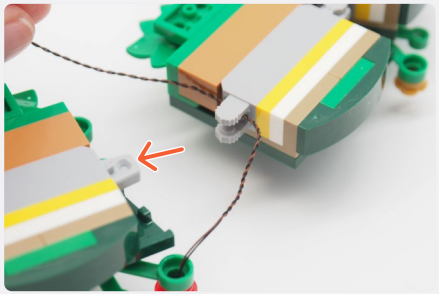
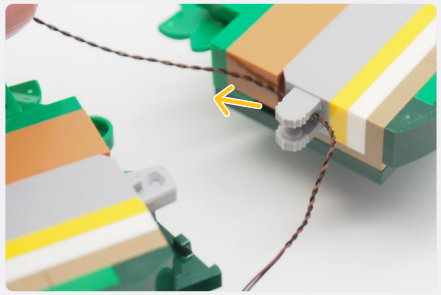


Red 30cm Bit Light





Round Plate 1x1 - Trans Red

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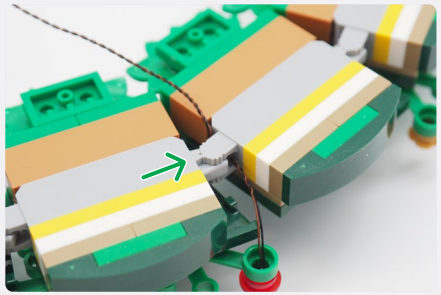
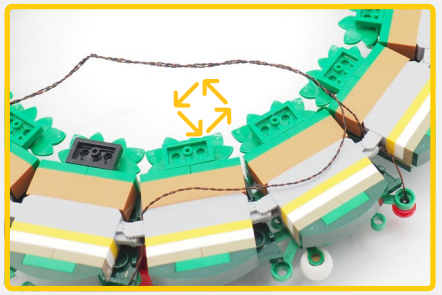
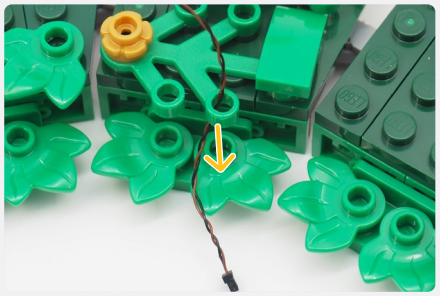


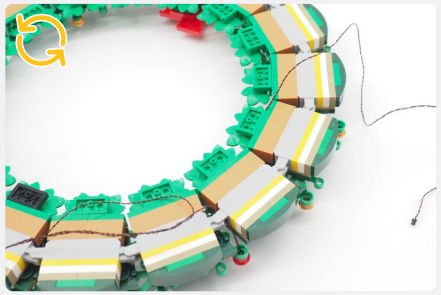
NOTE

Twist the cables of the two Bit Lights you have installed.



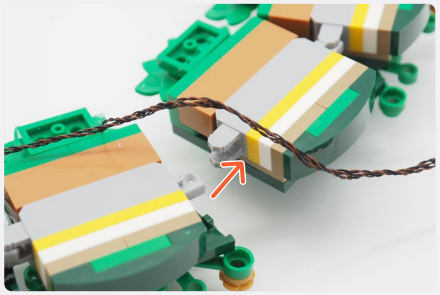
White 30cm Bit Light

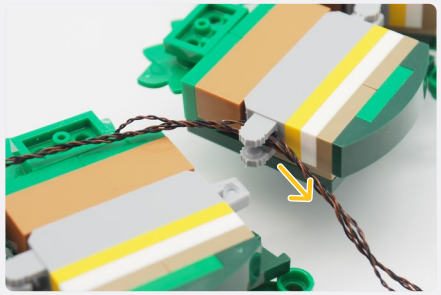




NOTE

Take the Bit Light you just installed and twist it together with the bundle you twisted earlier.





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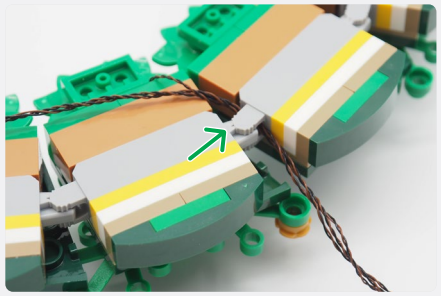
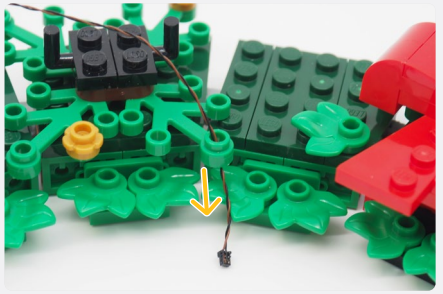
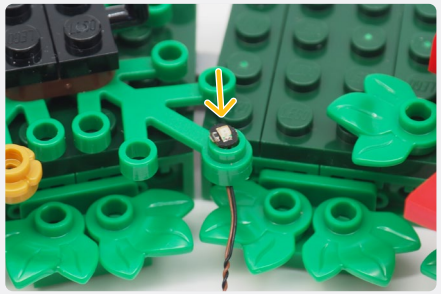
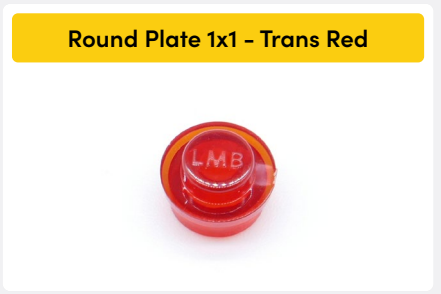


Red 30cm Bit Light





Round Plate 1x1 - Trans Red



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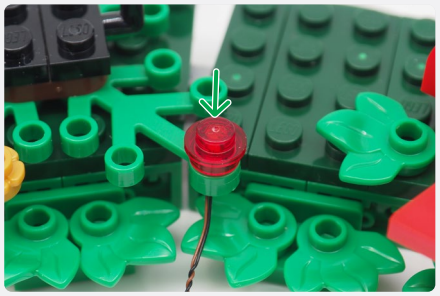
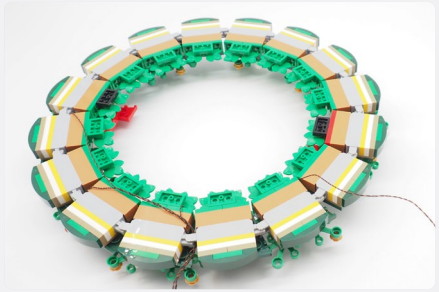
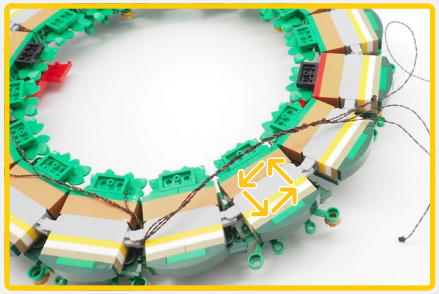
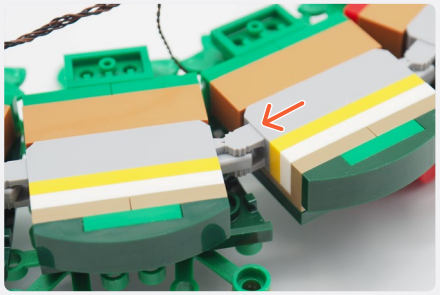


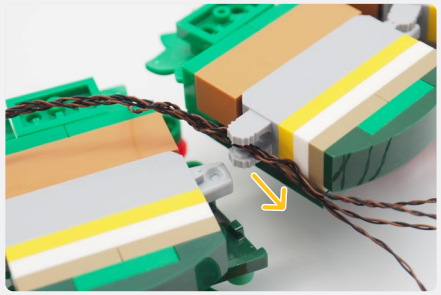


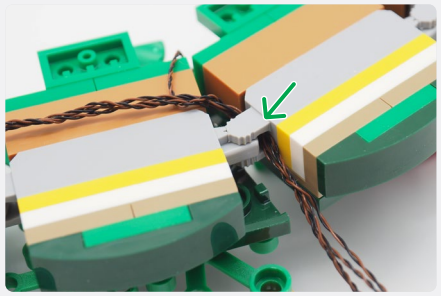
NOTE

Take the Bit Light you just installed and twist it together with the bundle you twisted earlier.

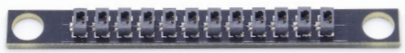


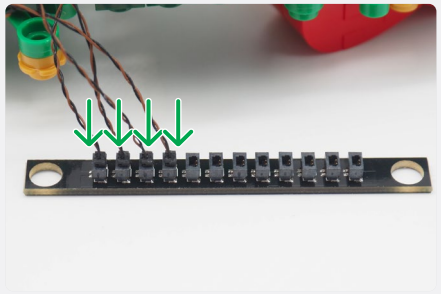




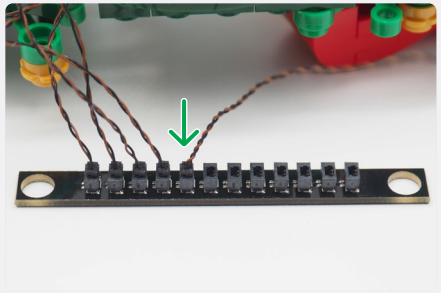


12-Port Expansion Board





USB Power Cable



AA to USB Battery Pack

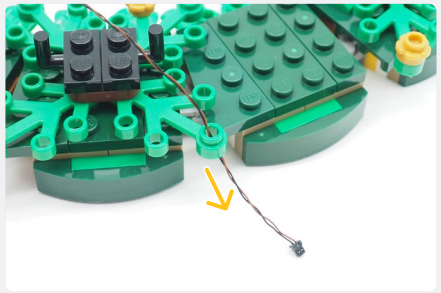
NOTE

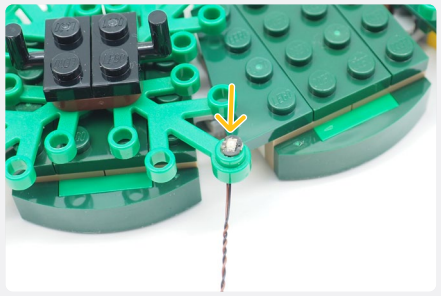
Connect the USB Power Cable to the AA to USB Battery Pack.

! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues in our troubleshooting section. ¡

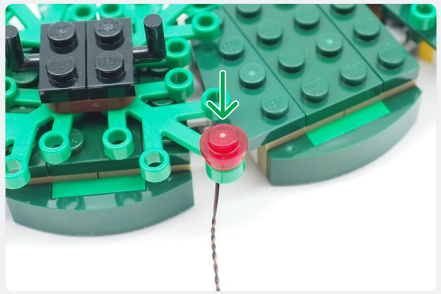
6

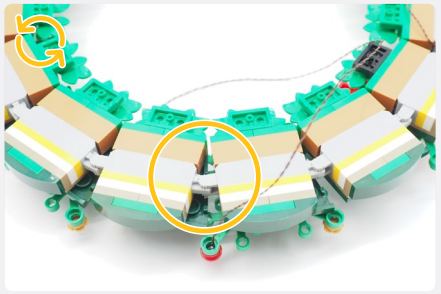
Red 30cm Bit Light

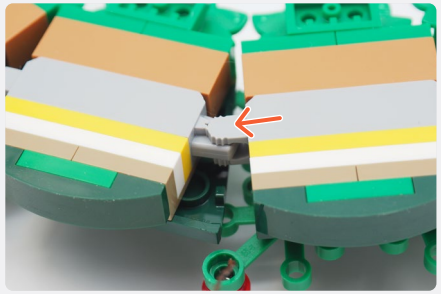


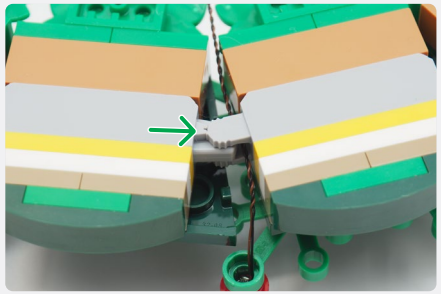


Round Plate 1x1 - Trans Red



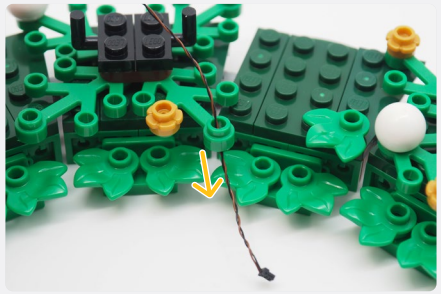


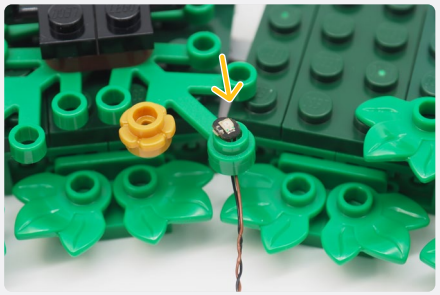




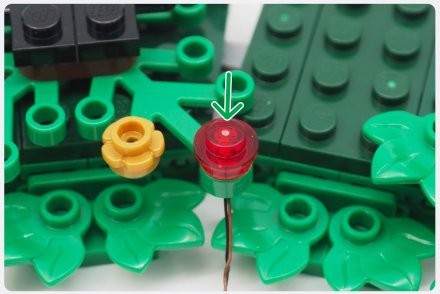
7

Red 30cm Bit Light



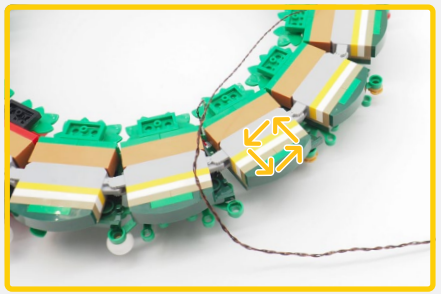


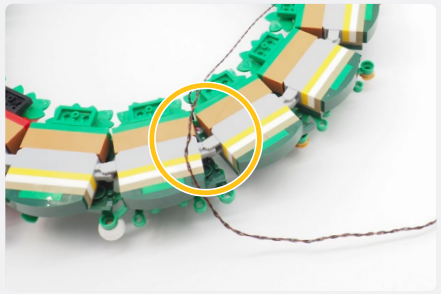
Round Plate 1x1 - Trans Red

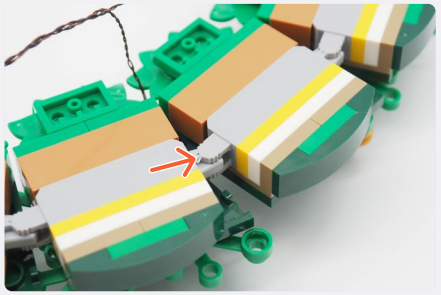


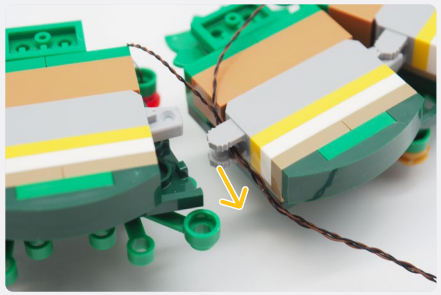
NOTE

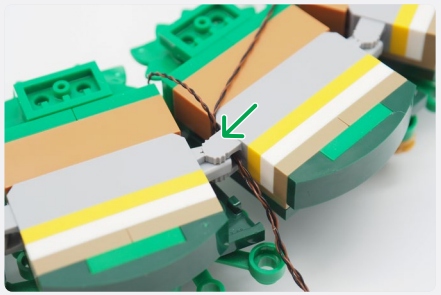
Take the two Bit Lights you just installed and twist them together.





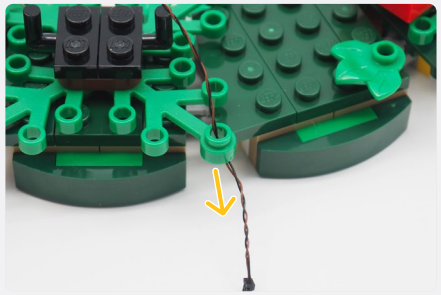
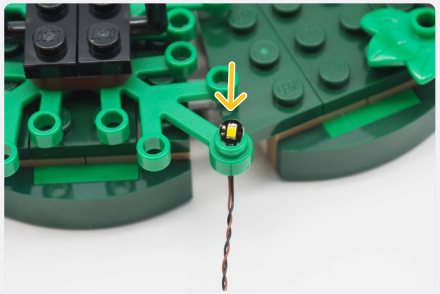
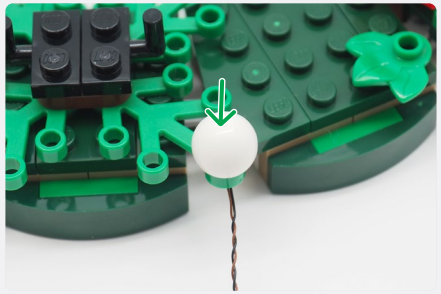






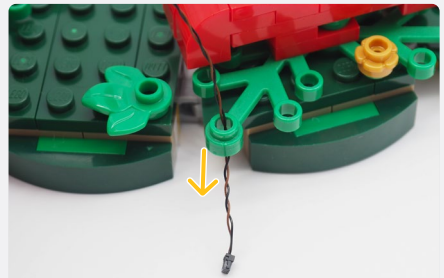
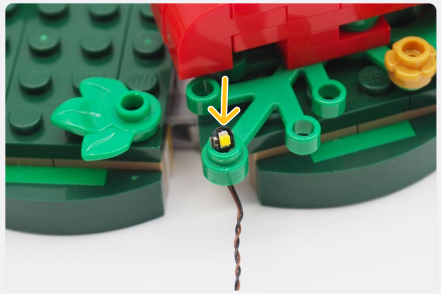
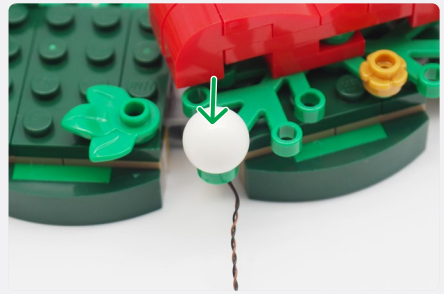
8

White 15cm Bit Light

9

White 15cm Bit Light

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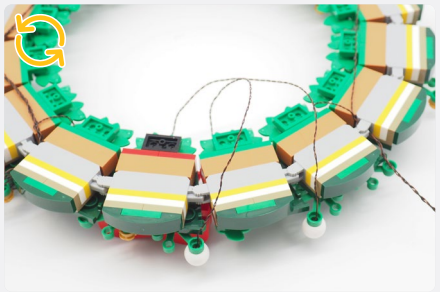
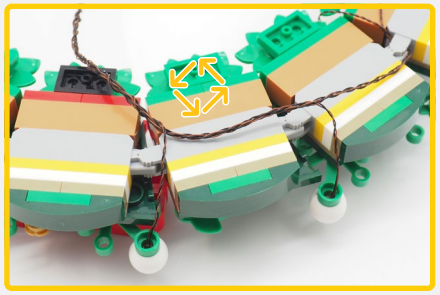
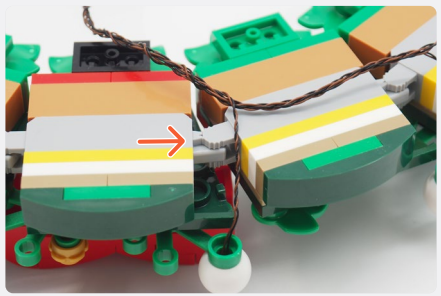
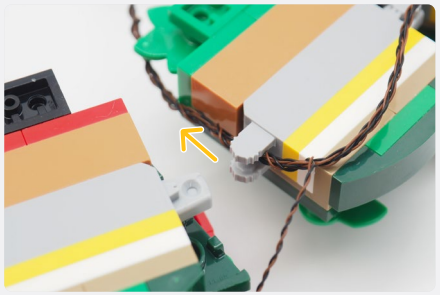


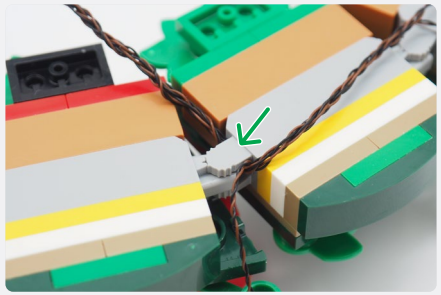
NOTE

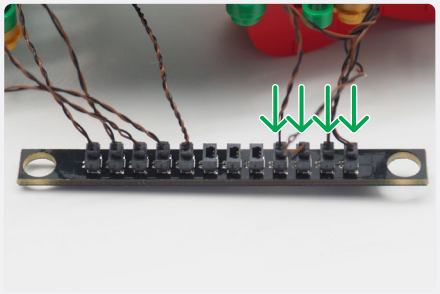
Take the two Bit Lights you just installed and twist them together with the bundle you twisted earlier.

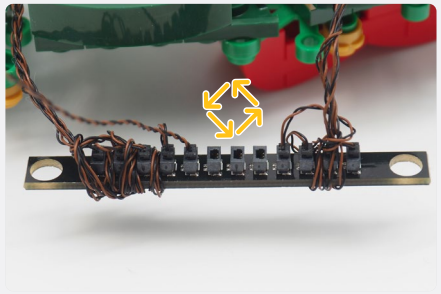












! If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues in our troubleshooting section. i

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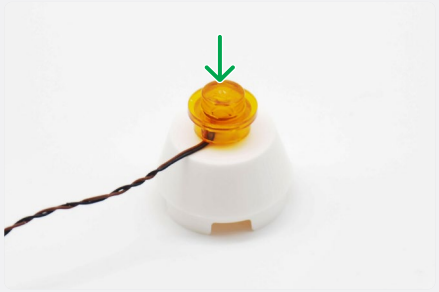
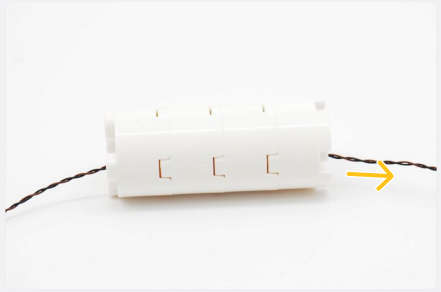
White 30cm Bit Light

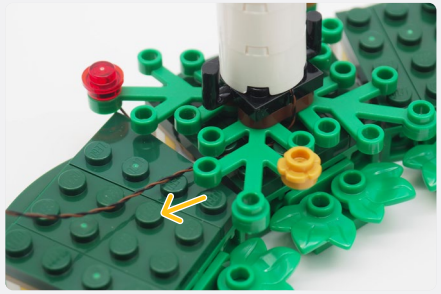
Round Plate 1x1 - Trans Orange

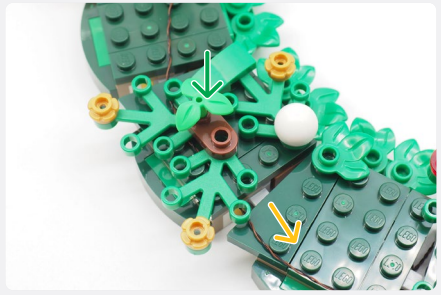


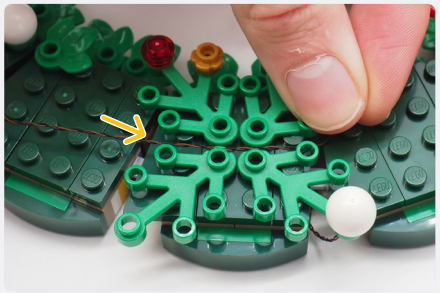


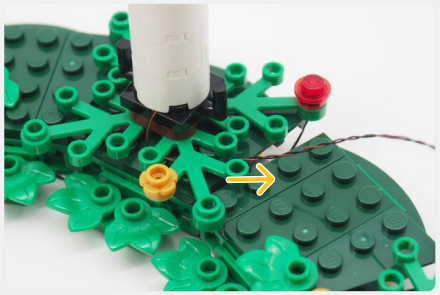
x2

12









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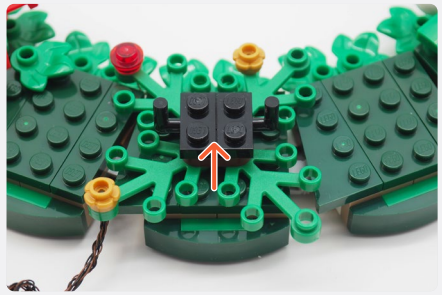
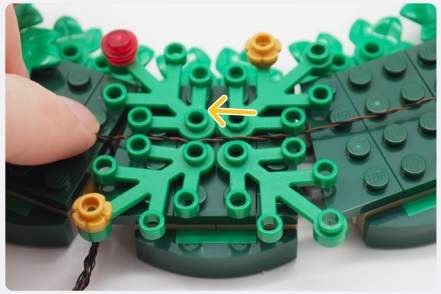
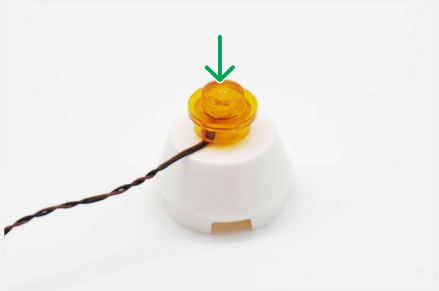
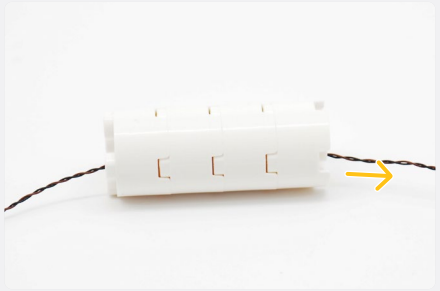



14

White 15cm Bit Light

Round Plate 1x1 - Trans Orange





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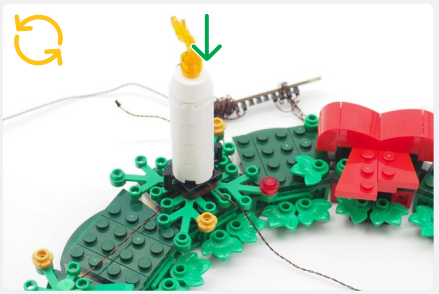
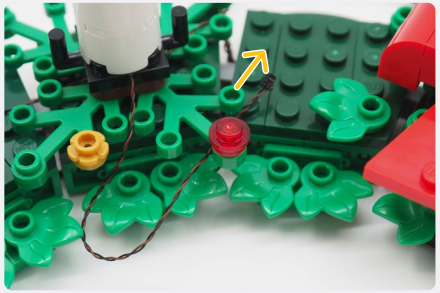
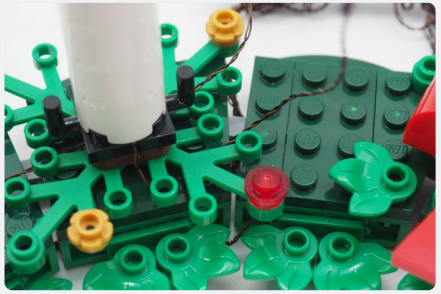
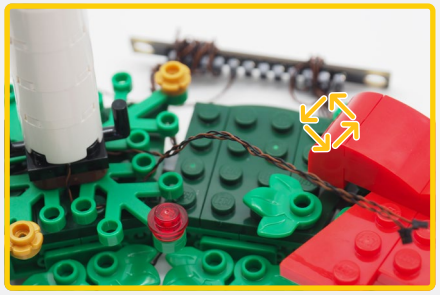






NOTE

Twist the cables from the two candles on the same side together.



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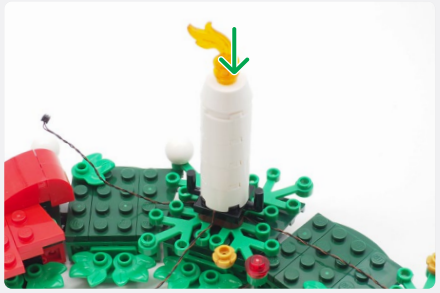
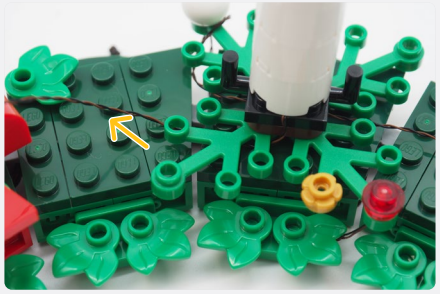
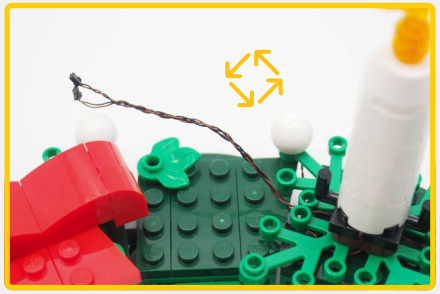




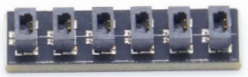
NOTE

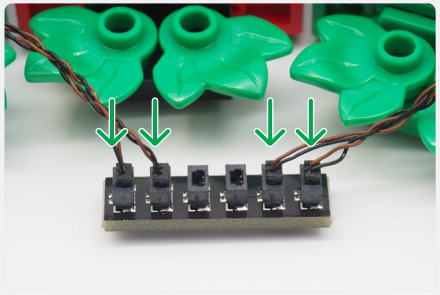
Twist the cables from the two candles on the same side together.



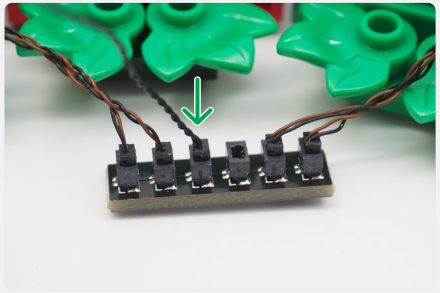
17

6-Port Expansion Board

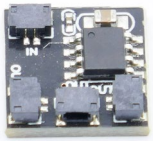




5cm Connecting Cable

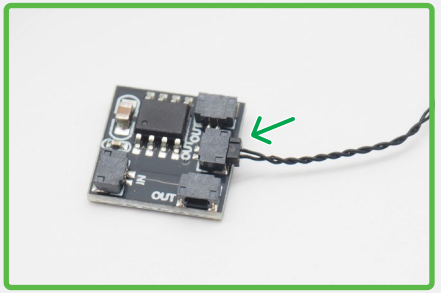


Flicker Effects Board



NOTE

Connect the 5cm Connecting Cable from the 6-Port Expansion Board into the “OUT” port of the Flicker Effects Board

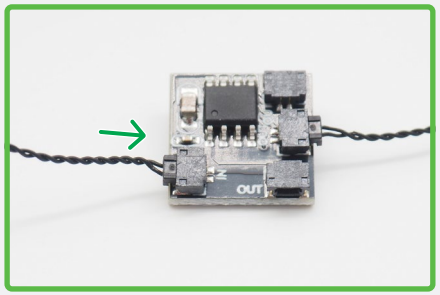


5cm Connecting Cable

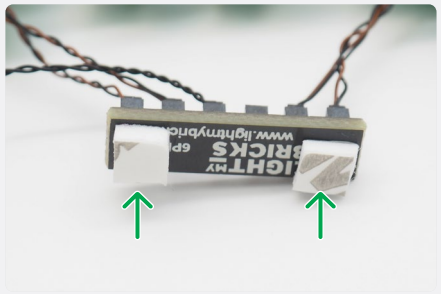
18

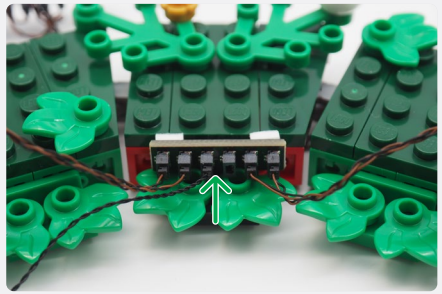
NOTE

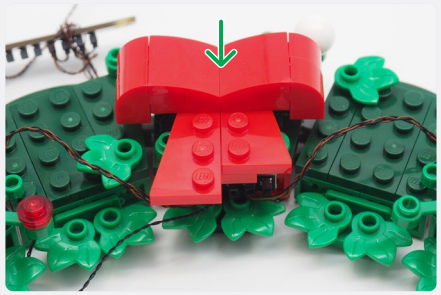
Connect the 5cm Connecting Cable into the “IN” port of the Flicker Effects Board



2x Adhesive Square



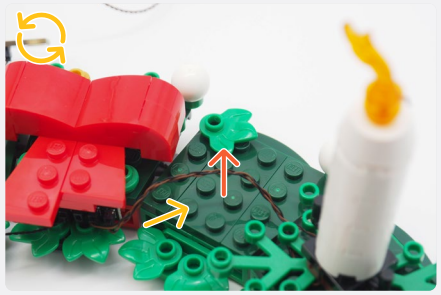


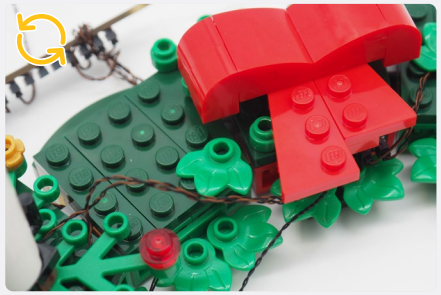


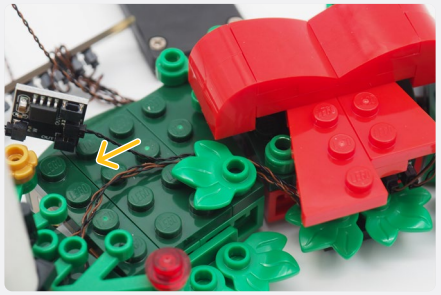
19

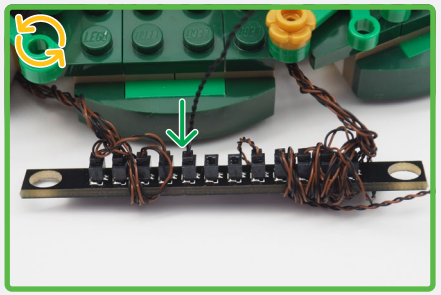
NOTE

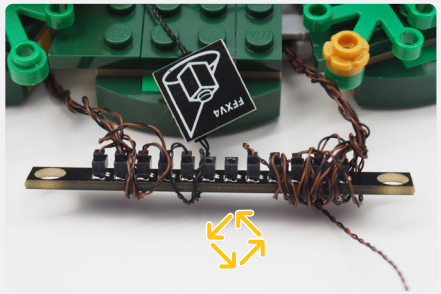
Connect the 5cm Connecting Cable from Step 17.

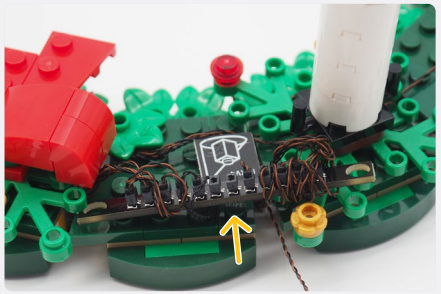












NOTE

Reconnect all of the leaf sections from Step 1 to their original positions.

If you experience any issues with the lights not working and suspect an issue with a component, please try a different port on the expansion board to verify where the fault lies (with the light or expansion board). To correct any issues with expansion board ports, please view the section addressing expansion board issues in our troubleshooting section.

FINAL PRODUCT

This finally completes installation of the Light My Bricks

LEGO® Christmas Wreath 2-in-1 40426 Light Kit.

TROUBLESHOOTING

Light My Bricks lighting kits contain individual components that are very small and can be easily damaged if not handled correctly.

To prevent unnecessary damage to components, we highly recommend that the User Guide section, **“Important things to note”** is read carefully. Follow the handling procedures in the User Guide to help prevent faults and damages to your Light My Bricks components.

If you are experiencing issues with your Light My Bricks set, watch our troubleshooting video or read on for a list of common causes to help you troubleshoot.

Wenn Sie Probleme mit Ihrem Light My Bricks-Set haben, sehen Sie sich unser Video zur Fehlerbehebung an oder lesen Sie die Auflistung der häufigsten Ursachen, die Ihnen bei der Fehlersuche helfen hier.

Si vous rencontrez des problèmes avec votre kit Light My Bricks, regardez notre vidéo de dépannage ou consultez la liste des causes les plus fréquentes pour vous aider à les résoudre ici.

Se si verificano problemi con il set Light My Bricks, guardare il nostro video per la risoluzione dei problemi o leggere l'elenco delle cause più comuni per la risoluzione dei problemi qui.

Troubleshooting

Firstly, ensure that the batteries have power using a battery charge gauge.

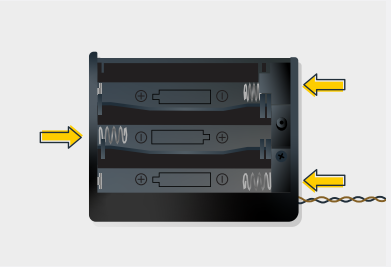
If the batteries have no power, replace the batteries.

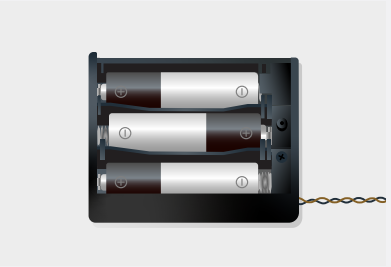
If the batteries still have power, check to see if the batteries have been inserted correctly into the battery pack.

Check for AA batteries using the AA battery pack

Inside the battery pack are symbols indicating which direction the AA battery should be inserted. The flat side of the battery should be paired with the spring side of the battery pack.

If the batteries have been installed correctly and your kit still isn't operating correctly, the next step is to check the wiring.





Troubleshooting

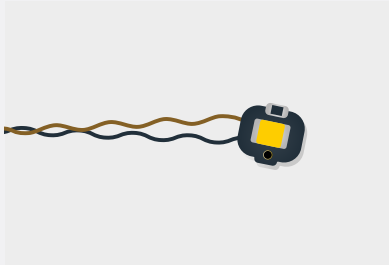
Check Your Wires

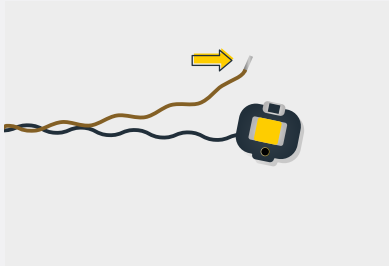
In order for Light My Bricks components to fit in between and underneath LEGO® bricks, the components need to be very small. Due to this nature, Light My Bricks components can be easily damaged when not handled correctly.

Be careful when removing unpacked components out of the packaging and ensure not to forcibly pull at the wires as this can damage the soldering that attach the wires to the LEDs.

If the wiring is detached from the LED itself, the light will not operate.

When connecting lights to your LEGO® set, check that there are no pinched wires underneath or in between bricks and plates. When the wires are pinched and the exposed wires are touching each other, this can cause a crosswire and the lights to not function correctly.





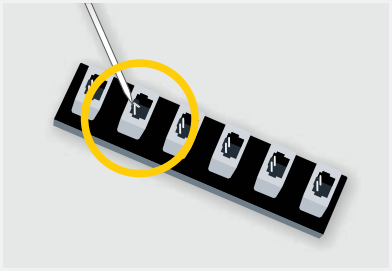
Troubleshooting

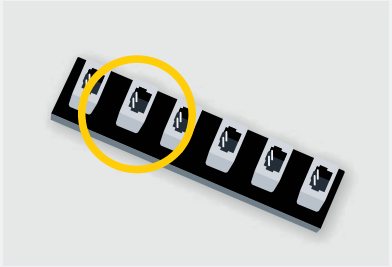
Check Your Expansion Board Ports/ Strip Light Ports / Effects Board Ports

It is important to note that connectors can only be inserted to the expansion board, strip light, or effects board ports in one direction.

Forcibly inserting connectors in the incorrect direction will result in damaging the pins inside each of the ports on your component board.

Not only will a light connected to the damaged port not work, but if the pins inside the port are bent to a point they are touching each other, this can result in all other lights in the system to stop working. This is a short circuit.

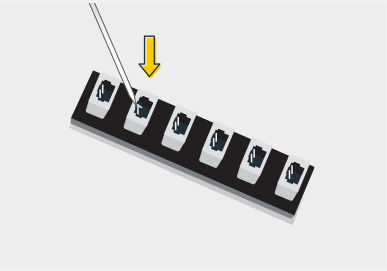




A short circuit can also result in overheating of the board, cable or batteries. If you suspect a short circuit, DISCONNECT POWER IMMEDIATELY Batteries can fail, catch fire, or even explode if left connected to a short circuit for too long.

If you suspect you have a faulty component due to a bent pin, try the following steps:

If you look carefully inside each of the ports, each port contains 2 small pins that should be straight. You will be able to identify a faulty port if it has any bent pins.



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